A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H01L51/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 - H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, INSPEC

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	D'ANDRADE BRIAN W ET AL: "High-efficiency yellow double-doped organic light-emitting devices based on phosphor-sensitized fluorescence" APPLIED PHYSICS LETTERS, AMERICAN INSTITUTE OF PHYSICS. NEW YORK, US, vol. 79, no. 7, 13 August 2001 (2001-08-13), pages 1045-1047, XP012030036 ISSN: 0003-6951 the whole document	1-4,6, 8-12,15
X	WO 01/08230 A (UNIV PRINCETON; UNIV SOUTHERN CALIFORNIA (US)) 1 February 2001 (2001-02-01) cited in the application the whole document	1-4,6, 8-12,14, 15

X Further documents are listed in the continuation of box C.	χ Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the International filling date L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filling date but later than the priority date claimed	 "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 14 December 2004	Date of mailing of the international search report 22/12/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer . Wolfbauer, G

		FC1/JP2004/011414		
	Citation of document with Indication where accounts the state of the citation of the citation of the citation where accounts the citation of t	72		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Х	WO 01/91203 A (AKIYAMA KIMIO ; SHIRANE KORO (JP); SHOWA DENKO KK (JP)) 29 November 2001 (2001-11-29) the whole document	1-3,6-8, 10-13		
Α	US 6 582 875 B1 (BEDZYK MARK D ET AL) 24 June 2003 (2003-06-24) compound L5	6		
Α	US 2002/096995 A1 (ARAKI KATSUMI ET AL) 25 July 2002 (2002-07-25) compound 27	7		
Α	US 2002/125818 A1 (FUGONO MASAYO ET AL) 12 September 2002 (2002-09-12) compounds H-41	5		
Α	DE 44 28 450 A (PHILIPS PATENTVERWALTUNG) 15 February 1996 (1996-02-15) the whole document			
	·			

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 0108230	Α	01-02-2001	US AU	6310360 B 6113800 A		30-10-2001 13-02-2001
			CN	1402885 T	•	12-03-2003
			EP	1204994 A	\1	15-05-2002
			JP	2003520391 T		02-07-2003
			WO	0108230 A		01-02-2001
			US	2003178619 A		25-09-2003
			US 	2002008233 A	\1 	24-01-2002
WO 0191203	Α	29-11-2001	AU	5678101 A		03-12-2001
			CA	2380067 A		29-11-2001
			EP	1214746 A		19-06-2002
			WO	0191203 A		29-11-2001
			JP TW	2002050483 A 518768 E		15-02-2002 21-01-2003
			US	2002146589 A		10-10-2002
						10-10-2002
US 6582875	B1	24-06-2003	CN	1434523 <i>F</i>		06-08-2003
			EP	1331676 <i>F</i>		30-07-2003
			JP	2003243168 /	A 	29-08-2003
US 2002096995	A1	25-07-2002	JP	2002158091 A	A	31-05-2002
US 2002125818	A1	12-09-2002	JP	2003077674	4	14-03-2003
DE 4428450	Α	15-02-1996	DE	4428450 <i>I</i>	 41	15-02-1996
			DE	59507560		10-02-2000
			DE	69514495		17-02-2000
			DE	69514495		10-08-2000
			EP	0697744		21-02-1996
			EP	0723701 /		31-07-1996
			WO	9605607		22-02-1996
			JP JP	8319482 <i>I</i> 2002516629		03-12-1996
			UΓ	ZUUZD100Z9	ı	04-06-2002
			ÜS	5698858	۸	16-12-1997